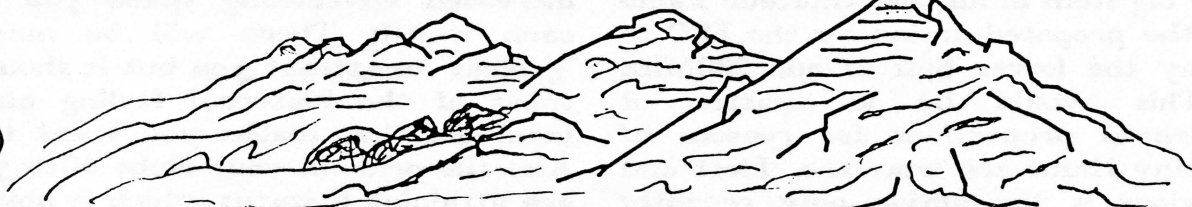


# the CARRIER



## the MOUNT DIABLO AMATEUR RADIO CLUB

MDARC FIELD DAY CALL W6CX

REPEATERS ON 147Mhz -- 220 Mhz -- 440 Mhz CALL W6CX/R

MEMORIAL CALL SIGN W6LGH

Volume XXXV

APRIL 1987

Issue No. 4

### APRIL MDARC CLUB CALENDAR

- 16 -- Central C.C.RACES/ARES SET  
1700 - 2100 Hrs.
- 16 -- Walnut Creek Police Dept.  
(SET in Bldg. 1700)
- 21-- Sheriff Uniformed RACES  
1930 - OATH OF OFFICE
- 24 -- GENERAL MEETING AND AUCTION
- 26 -- Sheriff Uniformed RACES  
Action Lafayette Loop.
- 28 -- EXEC.BOARD MEETING 1930 Hrs.  
at KA6IVF Home.

-----  
GENERAL: MDARC NET Thurs.  
1930 PST. W6CX 147.06/+R  
PARKY NET: 2200 Hrs.  
Every night 3895 khz.(+ -)QRM  
NCN/VHF 1930 PST  
CCRA NET 1935 PST. MON. 147.735/-R  
CCATV NET Thurs. 2000 PST. 146/+R  
RACES/ARES NETS Weekly Thurs.  
Central 1900 PST 145.68/S  
East 1900 PST 146.54/S  
West 1900 PST 145.11/-R  
South 1845 PST 147.555/S  
ALL EMERGENCY NETS QSY TO  
147.735/-R AT 1920 PST.

### MEETING NOTICE

THIS MONTH'S MEETING WILL BE HELD AT  
THE GRACE PRESBYTERIAN CHURCH  
2100 TICE VALLEY BLVD.  
WALNUT CREEK  
8:00 P.M.



The Rocky Ridge Repeater Group of MDARC meets every other month. NEXT MEETING: MAY 20, 1987. LOCATION: Don Protzman K6LXW 134 Maricopa Dr. Pleasant Hill. New members are welcomed and long time members are brought up to date on repeater technology.

SUPPORT YOUR REPEATERS.

EDITOR: Carson C. Taylor .. K6TI .. 48 Mariposa Ct. Danville, Ca. 94526 (415) 820 - 5297

Associate-Ed. & Membership Chairman.. Dr. George Jones .. KB6QDT..325 Glen Arms Dr.Danville, CA.94526 ... 837 - 9316

President:	WB6PQM	Scott Miles	12 Big Oak Ct. W. C.	934 - 6081
Vice-Pres:	KT6X	Richard Brown	4125 Sacramento St. Concord	676 - 9046
Secretary:	N6NVA	Jane Walker	57 Ocean View Dr. West Pitts.	458 - 3164
Treasurer:	KB6MAF	Richard Schulze	1599 La Casa Ct. W. C.	935 - 5000
E. C.	: WA6DQN	Joe Gregory	3550 Eastview Dr. Lafayette	283 - 6560
Board	: KT6Y	Jay Caldis	2890 Grande Camino W. C.	939 - 1893
Board	: KA6IVF	Jim House	Post Office Box 3444 W.C.	372 - 0345

DEADLINE FOR NEXT ISSUE: April 28, 1987.....Send all copy directly to the EDITOR .....NOT THE CLUB P.O. BOX

## THE HAM SHACK OF K6TI

The big item in all the Amateur Radio News is the proposed action by the FCC to take away the lower half of our 220Mhz band. This would be a disaster of unprecedented proportions for reasons of which many Hams are unaware. First and very obvious is the action only recently concluded by the FCC to enhance Novice privileges by granting them use of the repeater inputs on this band. Less obvious to many, and apparently to the FCC, is the fact that our repeater operators use many frequencies in the lower half of 220 for the control links to govern our repeaters. Where would these controls go and at what cost to all of us? Also the rapidly growing Packet Radio groups are busily building a Nationwide network of Digipeaters for traffic handling and especially emergency work in this region. What is to become of this pioneering effort? Also we have the devotees of Moonbounce and Meteor Scatter using these frequencies. Exactly what reasoning the FCC can show for this threat to all these amateur services is not hard to fathom. The Commercial Land Mobile has been bugging them for years to give them this band. Many of us have written in protest and sent the myriad number of copies to gain status as an "Official" protest against General - Docket 87 - 14. When you read this it may not be too late to put in your own word about this action. April 6, 1987 was set as the deadline but ARRL has been working hard to get an extension since this Notice of Proposed Rule-making (NPRM) was pushed through very quickly with little advance warning. There are several well written guideline letters which you may use as a basis if you do not wish to formulate your own but please do not allow this to go unopposed by every person holding a call and valid license. To lose these frequencies 220 -222 would be catastrophic in its consequences to all Ham radio. You can not afford to remain silent. If you have no other source of information at your call by all means phone the CARRIER we will help you with the formalities.

At the MDARC Board meeting much time was put in discussing the pros and cons of how many of you will respond to a celebration party in July for the Club's 40th

birthday. The decision was to go ahead with the plans to stage such an event and there will be a first class prize of an HT for some lucky winner. This is being given to the club by HRO in payment for the increased advertising space you now see each month. There will be many more "goodies" to attract you but it should be the spirit of the fraternal feeling among the members that makes you want to attend. Also the pride in your clubs 40th year. We are attaining a status which is held by only a few Amateur Radio organizations outside the ARRL. Here in the Bay Area we have the SARO (Society of Radio Amateurs) who attained their 50th year in 1986 and one of MDARC'S members is past president of that group and a charter member of MDARC, (the Carrier Ed. is also past pres.) so we have the types who stay with a Club and Ham Radio for many years. Let's make this a real bash, we owe it to ourselves. Get in touch with George Roush WB6OFH if you would like to assist as well as come. Reservation applications are now ready and will be available at the meeting as well as by calling WB6OFH, KB6QDT or K6TL. Let's go gang!

As most of you have heard the Federal Court has finally ruled in favor of the Amateur in Lakeside, Kentucky who has been fighting a restrictive antenna ordinance for a very longtime. They invoked the PRB-1 Ruling of the FCC and instructed the city to give him his requested 65 foot tower plus 8 feet for the antenna mast making a height of 73 feet overall. One Justice ordered that the city pay all costs and damages but it is unclear whether this is final or not. The fact that the Amateur has won his case IS a fact and now becomes case law. This gives all of us room to negotiate. If you are unaware, San Ramon has an ordinance totally forbidding Ham antennae. Our compromise with Danville is not too bad at all when you consider we succeeded in establishing excellent relations with the Planning Commission and the City Council. We now are approaching them quietly for an amendment based upon what happened in Kentucky. Everyone focuses on antenna ordinances when these are not always the big issue. The possibility of losing one half of one of our most important bands IS. Write that letter and keep informed, it is vital to your hamming!



## MINUTES OF MDARC MEETING

Friday 20 March, 1987, General Meeting of MDARC was brought to order by Pres. Scott Miles WB6PQM at 2000 Hrs. Guests, upgrades and visitors were introduced. He also announced that Jay KT6Y had just successfully passed his youngest Novice student in his classes. Seven years of age.

### OLD BUSINESS:

Carson K6TI was absent but wanted all to know that he has a new supply of magnetic signs for use on your car. \$17.50 a pair. You may buy one if you wish. He advanced the money to get these signs in quantity thereby saving all purchasers over \$3.00 per sign.

### OFFICER REPORTS:

KT6X Dick Brown V.P. out of town.

Treasurer Dick Schulze reported \$1758.20 in Checking account and \$1122.87 in Savings.

E.C. Joe Gregory gave activities coming up; 12 April Display of Mobile Emergency Vehicles at the Fire College, Concord. Helicopters arriving 1030 hours. 16 April, Emergency Training Exercise. Begins 1700 hours. 17 April Disaster drill in Lafayette 0900 Hours. 26 April Walk America in all areas. 31 May 1230 - 1730 RACES training, county wide.

Jim House reported 50 - 60 RACES members registered.

Vicki N6KLS reported all applicants for Sheriff Uniform Level IV have passed and been accepted. 21 April they will be sworn in by Sheriff Rainey at the County Court House, Martinez. First event will be the Lafayette Loop. If you would like to be a member see Vicki.

Scott Thomas announced the AUCTION 24 April. This will be our regular meeting but pushed back one week due to religious holiday. NO JUNK PLEASE.

The President asked for a committee for the Christmas Awards. Five persons are needed. If you can do this service see Scott.

George Jones KB6QDT recommended that the CARRIER always needs news and articles. Send them to K6TL.

Lauren had excellent prizes for the drawings of the Raffle.

Jay Caldis reminded that 22 May the license exams will be given. See him for more information. All classes will be available, Novice to Extra.

Lauren reported on Field Day. The park has granted the permit, they expected us to

come so reserved space for us. Lauren will be working 15 Meters, Novice class could use 10 Meters. Field Day is the 4th weekend in June, be on site not later than 1030 runs until approximately 1800. Everything must be set up and ready to go. Need people, tents, generators and equipment. 10 - 20 - 40 - 80 bands plus VHF and UHF will be used. Band captains are needed plus operators and general help. Contact Lauren NOW.

21 June Scott Miles is handling the Concord Airport Open House. Ten operators are needed from 0800 to 1600 Hrs.

Jay reported on the Rocky Ridge Repeater meeting. Timers are now set at 1 1/2 mins. In near future all codes will be changed. Members will be notified but to be sure you know attend the next meeting of RRRG in May. Voting will also be done on the admitting of Novice class to membership.

There are still several members who have not picked up their MDARC badge. See Scott Miles.

George Roushe announced the club will have its 40th Anniversary party in July. There will be transmitter hunts to find the bunnies on 2 meters, 220 and 440. 18 Bunnies will be hidden. Get your DF equipment ready and join the fun. Help is also needed to put on this event. Call George Roushe WB6OFH.

Roger W6SOT called attention to the new Maritime net. 1900 Hrs. each Wednesday on W6CX 147.06. All persons interested in boating welcome.

Meeting had intermission for coffee and doughnuts after which our guest speaker was introduced.

Speaker Ray Guerin has been with FBI for 16 years and told some very interesting stories. He is past Novice WA2CCR. Interesting note it costs one and one quarter billion dollars annually to run the FBI.

Next Board meeting at home of Dick Schulze Tue. 24 March 2000 Hrs.

Respectfully submitted,

Jane Walker N6NVA — Secretary. MDARC

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## MINUTES OF EXECUTIVE BOARD MDARC

24 March 1987. 2000 at home of Dick Schulze. Those present: Pres. Scott Miles, Sec. Jane Walker, Treas. Dick Schulze, Board Member Jay Caldis, Board Member Jim House. Absent was Vice Pres. Dick Brown.

Club Members present were: Carson

Taylor, George Jones, Lauren Styles and George Roushe. Pres. Miles called the meeting to order at 2000 Hrs.

The budget which Pres. Scott had drawn up was discussed in detail. He then asked Carson to give the advertising rates for commercial ads in the CARRIER. They are: \$15.00 for 1/4 page, \$30.00 for 1/2 page, \$65.00 for full page and \$75.00 if the full page is placed on the inside back cover. Business cards are \$5.00 and Ham ads for members selling equipment related to radio are free of charge.

Jay is looking into the possibility of getting a better rate on our liability insurance.

Pres. Scott is going to discuss with V.P. Dick Brown the giving of appreciation certificates to guest speakers as we did in the past.

The treasurer is sending in our State papers as required. Board minutes of last meeting were accepted.

Treas. Schulze reported \$1983 in bank at present. We have 191 paid members with 77 members still delinquent.

Jay's report on the Educational program showed a very successful term.

George Roushe discussed the 40th Anniversary party and is looking into facilities at the Lafayette Reservoir. Second choice of the Board was Briones Park.

A plan was made to have a transmitter construction night at the June meeting. This is to prepare everyone for the transmitter hunts at the party in July.

Dick Brown had sent in a list of programs for the year as follows:

- April \_\_\_\_\_ Auction
- May \_\_\_\_\_ Rod Stafford . Pac. Div. ARRL
- June \_\_\_\_\_ Jim House, Emerg. Tfc. Handling
- July \_\_\_\_\_ 40th Anniversary Celebration
- August \_\_\_\_\_ Open at present
- Sept. \_\_\_\_\_ Clark Cook. His Clipperton DXpedition.
- October \_\_\_\_\_ Auction
- November . Election and speaker
- December - Christmas Party

Next Board meeting at the home of Jim House KA6IVF 2000 Hrs, 28 April.

Respectfully submitted,  
Jane Walker N6NVA — Sec. MDARC \_\_\_\_\_

\*\*\*\*\*

(Ed.note: CARRIER is late and below standard in quality due to illness of Editor.

Please excuse.)

\*\*\*\*\*

" There must be no barriers for freedom in inquiry. There is no place for dogma in science. The scientist is free, and must be free to ask any question, to doubt any assertion, to seek for any evidence, to correct any errors." \*\*\*\*\*

Robert Oppenheimer, 1949.



Recently the CARRIER was asked to run a statement of a member regarding a dubious policy problem with AES. This company has replied asking that all our readers be assured that they attempt to fairly adjudicate all difficulties with hams doing business with them. They urge all Amateurs to believe in their "good faith". If this be true, AES has no worry about their policy. Other Amateurs who have dealt with AES report no problems were encountered. The CARRIER attempts to report the news, as far as it can be verified, to be objective and to do so in good faith.



The Sheriff's Amateur Radio Uniformed Group of RACES has passed all their tests and training. They will be sworn in by Sheriff Rainey 21 April at 1930 hours. The location is the Court House in Martinez. Vicki Zumwalt N6KLS, coordinator of the group extends a heartfelt "thank you" to all the members who hung in there and saw it through. It has been a long hard road from the first concept to this realization of the dream. "This group", states Vicki, "looks forward to working with all Amateurs toward the goal of providing public service to the communities of Contra Costa County and surrounding areas. Emergency preparedness is becoming more and more urgent." The first event in which this group will appear will be the Lafayette Loop 26 April. If you are interested in becoming a part of this special Sheriff's Group call Vicki N6KLS, Glenn N6JRK, or Brad W6AE0.



## ACCELERATED ELECTRONS

There is a YL, to be exact an XYL, who is a bundle of accelerated electrons. Lawrence Livermore Lab considered using her as a super accelerator for their high velocity Laser, however, her husband Glenn N6JRK decided that would be a bit much, since she goes at super-sonic speed all the time anyway. You all must know Glenn, a great guy, but his lights get dimmed by the zip and go of his charming wife. He certainly doesn't seem to mind since he is so supportive of all her endeavors and he is pretty hot himself. In other words they are quite a duo. This little sketch, however, is about Vicki N6KLS. Don't say you don't know who she is or you will label yourself as being "not with it". Sometime during the month of April in this twentieth century Vicki saw the light of day in Concord CA. Most of her life has been lived in this area although that can not have been too long. Tiny, outgoing, charming and above all, capable. A terrific operator on the ham bands and an organizer. Let's find out a bit more about her. First off, she is the daughter of Jane N6NVA. Several years ago she decided to get a Ham ticket. That was way back in the dark ages when an aspiring amateur had to trek into San Francisco and face the FCC Examiner. It scared the living daylights out of her as it has many another. She took her Mother along for moral support and what did Mom do? She took off to have lunch with her cousin. Fat lot of support her Mom was !!! Oh well, she was there so she might as well do it. Do it she did in typical style. Passed 100 per cent. She was so puffed up she had a hard time getting through the door of the Exam room. With her size that is some "puffing"! No time to waste let's go. Help out, public service etc. etc. what a great thing a Ham ticket is. These were a few of her thoughts. So she got right on it. Joined the Delta Amateur Radio Club in East County, the Contra Costa Repeater Group and the Mt. Diablo Amateur Radio Club. From that time on public service type operating was her thing. Nothing goes by that she doesn't get into, luckily she is married to a Ham who shares this dedication. They are a great pair and share these adventures together frequently with their twelve and a half year old daughter, Rochelle. Rochelle is taller than her Mom (which isn't very tall) and appears a charming young lady.

Another Ham? Now let's see it seems somewhere a while back Vicki's Mom who was going to give her moral support for the exam had deserted her. Well, not really deserted and she, of course, now has her ticket and is N6NVA. Vicki thought this would be a good way of keeping track of her Mom since her Father died five years ago. You will hear them every day on 147.735. This is one of the most pleasant aspects of this repeater. N6KLS is the coordinator of the Sheriff's Uniformed Group of RACES and you will find her busily working wherever there is public service to be done. Stop her sometime and talk to her. You'll enjoy it greatly although don't be surprised when, later, you find you have signed up for some event Vicki is supporting. She will accelerate your electrons, sure enough. Stop and get a charge!



On 28 March the South County Races put on their SET. The pre-planning of the group of operators all inexperienced in the arts and crafts of coordinating this type of endeavor was indeed a masterpiece. The only RACES experienced amateur was K6TI the EC for South County. The work these few operators did was inspiring to see. Their dedication was wholehearted and complete. The only thing missing was "experience" for which there is no substitute. Problems of coordination arose and we learned a great deal. We learned especially where various personnel were at their strongest and where they needed more practice. I, K6TI am proud of this group and saw something in them no leader can buy, "cooperation, esprit des corps, and desire to improve". Not all of the problems that developed were from operating errors. We ran into some serious problems in propagation in this part of the county that require considerable study and experimentation to overcome. Indeed, they may only be solveable by using repeaters, simplex may not be feasible. The Director of Transportation of the SRV Unified School District supplied buses for realistic communication with their system and he learned a great deal about how radio behaves in this effort. This alone could save lives of children in any future disaster.

The Danville EOC was activated with newly erected antennas on 2M, 220 Mhz and 440 Mhz. These work well but severe RF interference from a source unknown wiped out a great deal of this operation. This must be located. A path to State OES Region 2 was attempted to be opened for Packet but did not function. The line of sight is blocked by hills in Walnut Creek. The overall scenario was complex and well worked out on paper but it could not be implemented. Much work remains to be done to find all the answers to the problems inherent in operating a continuous simplex link between south San Ramon and Region 2 in Pleasant Hill. The schools themselves in the San Ramon Valley are not all accessible using simplex. Portable repeaters which can be suitably located to cover the emergency at hand will probably be the only dependable answer.

To the many RACES Amateurs from East, West and Central county who responded to this SET a heartfelt thanks. A great deal was learned and our next one will be a winner. You can bet on that.

\*\*\*\*\*  
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#### HAM ADS FROM MDARC

##### For Sale:

YAESU FT - 101 B Transceiver  
Yaesu FL - 2100 B Linear  
Spectronics Digital Display Model DD-1  
Asking \$475.00  
Joe V. Deas K6VLH  
4 Beswick Court  
Pleasant Hill CA 94523  
Phone ( 415 ) 935 - 9136

#### URGENT

Does any member of MDARC know where the Club banner is. It can not be found and is needed for such operations as Field Day, Mt. Diablo Run Etc. If you have any information please contact any club officer, membership chairman or the CARRIER editor. It must be found. Thank you !

For Sale: Swan Mark II Amplifier. Eimac

tubes, 110v - 220v, with manual. Needs minor check-out. Price negotiable. Call after 1800 hours. Dave David W6QFA, 240 Kuss Rd. Danville. Phone (415) 837 - 8779.

\*\*\*\*\*  
For Sale: Large desk "U" shaped with 3 shelves and large drawers. Complete with hardware. Photos at the Base Station. Owner Betty Smothers WA6CGS. Phone (415) 825 - 4439. Price negotiable.

\*\*\*\*\*  
There are still some signs left from the last order. These are the magnetic signs showing logo and words "Amateur Radio Communications". Price: \$17.50 per pair. One may be purchased at \$8.75. This saves you \$3.00 on every sign you might order direct. K6TI advanced the cash. Call 820 - 5297 to reserve yours. Very handsome way to advertise your public service.

\*\*\*\*\*

#### FCC EXAMINATIONS MDARC/ARRL

Sponsored Exams will be held Friday 22 May at 1800 Hrs PDT. They will run until 2200 Hrs. If you wish to take an exam send an FCC-610 form and a check for \$4.33 made out to ARRL/VEC. Mail to Jay Caldis KT6Y head of the Education Program for MDARC. His address appears on the front of this CARRIER. Pre-registration guarantees you a space. Walk-in accepted until all space is filled. If you desire more information call Jay at phone on front page. Remember if you fail the CW code test you can still take the written exam for credit against a future exam try. The schedule below will be followed as closely as possible.

ROOM 1	ROOM 11
1800 CW - 13 wpm	Novice CW/Theory
1900 CW - 20 wpm	Tech. Exam
2000 Extra Theory	General Theory
2100 As needed	Advanced Theory

These times may be varied or changed to suit the situation as needed. Plan now to have a place reserved for your upgrade. Send the required form and check as stated above. Recent examinations given in the area have been crowded. Call KT6Y if you need assistance.

\*\*\*\*\*

—— "to be surprised, to wonder, is to begin to understand. This is the sport, the luxury, special to the intellectual man"——

Jose Ortega Y Gasset (1883-1955)



## AN HT TRICK for IC-02AT

Here is a trick as related to me for the ICOM-02AT. I have one and made a brief try but it didn't work maybe you can make it happen. I did not give it a serious attempt.

It has been found by VE3KZE that the 02AT can be made to receive in the range up to 154 mhz. Here is the dope the way he relates it.

Move into the 150 mhz range by using shift # key. First, dial in 1499, shift into 150 range and then you can enter frequencies up to 154mhz. The keyboard works normally and the frequencies in this region can be memorized and retrieved in the usual manner. To move back into the normal range you use the same technique in reverse. He claims once frequencies have been stored you can move from one range to the other by using the memory. You, of course, can not transmit in the higher region which is outside the Amateur band.

\*\*\*\*\*

Here is a puzzler to while away a moment.

You have a balance type scale. You have four weights. With these four weights you can weigh from 1 to 40 pounds. (Integer values only) What are the values of these four weights? Answer at bottom of page, if you want to peek.

\*\*\*\*\*

Here are a few thoughts from HAM-GAB, KA9HDB Editor.

ComputerWorld recently reported these facts regarding some of the IBM Clones that have appeared on the U.S. market at low prices. Last Spring the FCC paid a surprise visit to the largest semi-annual micro-computer convention, Comdex, held in Atlanta. They were looking for type acceptance on displayed equipment. They placed citation tags on 2500 pieces of uncertified gear.

Specifically the FCC found that 94% of the IBM clones from 87 different vendors were not properly certified and had serious defects. RFI checks showed most of them sadly deficient in proper construction. This year the Comdex show was held in Las Vegas and again the FCC presence was carried on by six agents. It was found here

that 70 to 80 % of these clones failed the tests.

The FCC has the authority to prevent the sale of equipment that has not been submitted for testing or that has failed the test. Many small, start-up, garage-based operations producing computers under a variety of names using Japanese parts get into trouble. The FCC finds their computers high in RF radiation and stops the operation cold.

This can be of interest to Hams looking for equipment to get into the RTTY/AMTOR/PACKET swim and these products look very tempting. However, if you do not have all the peripherals hooked up and running and check with your radio to see if the interference is controlled you may be in trouble when you take it home. Frequently you can operate the computer alone on the kitchen table and it seems to be great but hook it up with your radio gear and printers, modems, etc. and you have hash. The HF gear goes beserk and since RF can get out from these beauties it can also get in and real problems develop. Susceptibility to failing due to static build-up is another consideration. I know of one plush office in Chicago, full of clones and they are having a terrible time with static. Everytime someone walks by the entire system shuts down.

A word to the wise.....

Courtesy KA9HDB.

\*\*\*\*\*

The above article, of course, does not apply to the many legitimate IBM type computers on the American market. Many of them, such as Compaq, have been beating IBM to the punch in all departments of modern operation.

\*\*\*\*\*

This has to get to the printer now or you will get it in time for Christmas or something. Sorry about being laid up but it couldn't be helped and I am just getting back on my feet again. Thank you all for being patient..... Carson\_K6TL

\*\*\*\*\*

The answer to the puzzler: The weights are 1,3,9 and 27. With 1 & 3 you can weigh 1,2,3 and 4. Add the 9 and you can weigh to 13 using subtraction or addition. Add the 27 and you can weigh any amount up to 40 pounds.

100  
MDARC/ARRL  
PCG EXAMINATIONS  
MAY 22, 1987

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CONTACT  
JAY D. CALDIS  
KT6Y  
939-1893/464-1297



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\$1899.95

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VHF/HT \$319.95

\*\*\*\*\*

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YAESU

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SISTER CLUB



DK#EE

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\$2:00.